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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/045,741	10/26/2001	William H. Schiffbauer	6395-61321	9697
7590 11/20/2003			EXAMINER	
KLARQUIST SPARKMAN, LLP Suite 1600			LE, JOHN H	
121 SW Salmo	n Street		ART UNIT	PAPER NUMBER
One World Trade Center			2863	
Portland, OR 97204-2988			DATE MAILED: 11/20/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Amplication No.	Applicant(a)	<del>(/)</del>
	Application No.	Applicant(s)	0
. Office Action Summany	10/045,741	SCHIFFBAUER, WILLI	IAM H.
Office Action Summary	Examiner	Art Unit	
	John H Le	2863	
The MAILING DATE of this communication ap Period for Reply	pears on the cover shet wit	h the correspondence addres	·s
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).  Status	136(a). In no event, however, may a re by within the statutory minimum of thirty will apply and will expire SIX (6) MONT e, cause the application to become ABA	ply be timely filed  (30) days will be considered timely.  HS from the mailing date of this commu	nication.
1)⊠ Responsive to communication(s) filed on <u>22</u>	Sentember 2003		
	his action is non-final.		
3) Since this application is in condition for allow		are prospertion as to the m	orite is
closed in accordance with the practice under Disposition of Claims			ents is
4)⊠ Claim(s) <u>1-26</u> is/are pending in the applicatio	n.		
4a) Of the above claim(s) is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-26</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
9)⊠ The specification is objected to by the Examine	er.		
10)⊠ The drawing(s) filed on <u>26 October 2001</u> is/are	e: a)⊠ accepted or b)⊡ objec	ted to by the Examiner.	
Applicant may not request that any objection to the	ne drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
11) The proposed drawing correction filed on	_ is: a)□ approved b)□ di	sapproved by the Examiner.	
If approved, corrected drawings are required in re	eply to this Office action.		
12) The oath or declaration is objected to by the E	xaminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	119(a)-(d) or (f).	
a) ☐ All b) ☐ Some * c) ☐ None of:			
<ol> <li>Certified copies of the priority document</li> </ol>	ts have been received.		
2. Certified copies of the priority documen	ts have been received in Ap	oplication No	
<ul><li>3. Copies of the certified copies of the price application from the International Both See the attached detailed Office action for a list</li></ul>	ureau (PCT Rule 17.2(a)).		ge ·
14) Acknowledgment is made of a claim for domest	tic priority under 35 U.S.C. §	119(e) (to a provisional app	olication).
<ul> <li>a)  The translation of the foreign language pr</li> <li>15)  Acknowledgment is made of a claim for domes</li> </ul>	• •		
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Ir	ummary (PTO-413) Paper No(s) nformal Patent Application (PTO-15:	
S. Patent and Trademark Office			

1. This office action is in response to applicant's amendment received on 09/22/2003.

Claims 1 and 23 have been amended.

## Specification

2. The abstract of the disclosure is objected to because the abstract should be in narrative form and generally limited to a single paragraph on a separate sheet limited to 150 words. Correction is required. See 37CFR 1.72.

### Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schiffbauer et al. (USP 5,939,986) in view of Story (USP 3,708,671).

Regarding claim 1, Schiffbauer et al. disclose a hazardous area warning system for warning personnel of an attendant hazard when they may enter into hazardous areas, the system comprising a receiver 26 for receiving a directional signal indicating proximity of a hazard, and including circuitry that indicates a level of received directional signal in a direction (Col.4, line 38-Col.5, line 22/Col.5, line 52-Col.6, line 31), means for determining based on the indicated level of received directional signal in the direction whether a received signal indicates proximity to an attendant hazard (Col.5, line 58-

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Col.6, line 31); and means 24 for transmitting an indication of whether a person wearing the directional receiving means is in a hazardous area (Col.4, line 38-Col.5, line 18).

Regarding claims 16-17, Schiffbauer et al. teach an antenna being a ferrite rod wrapped in wire, a receiver comprising an antenna, an amplifier, a filter, and detector (Fig.3)(Col.5, lines 10-18/Col.5, line 58-65), transmitter comprising an oscillator, an buffer amplifier, and an antenna driver (Fig.2)(Col.5, lines 23-51).

Schiffbauer et al. fail to teach circuitry that indicates a level of the received directional signal in a plurality of different directions.

Story teach a radiant energy detector adapted to produce a plurality of discrete output signals each indicative of a given level of radiation received from a different direction, a plurality of distinguishable indicators mounted for visual observation by the pilot and each representing one of the different directions indicated by the output signals, and a control circuit connected to receive the output signals and adapted to energize an indicator representing a given direction in response to reception of an output signal indicative thereof (Col.1, lines 40-52).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a radiant energy detector adapted to produce a plurality of discrete output signals each indicative of a given level of radiation received from a different direction, a plurality of distinguishable indicators mounted for visual observation by the pilot and each representing one of the different directions indicated by the output signals as taught by Story in a hazardous area warning system of Schiffbauer et al. for

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the purpose of providing an indicating system for warning a pilot of an aircraft of the presence of an intruder aircraft in the area (Story, Col.1, line 52-56).

5. Claims 2-9 and 18-21 rejected under 35 U.S.C. 103(a) as being unpatentable over Schiffbauer et al. (USP 5,939,986) in view of Story (USP 3,708,671) as applied to claim 1 above, and further in view of Weinstein (USP 5,170,172) and Kirtley et al. (USP 4,849,735).

Regarding claims 2-4 and 18, the combination of Schiffbauer et al. and Story discussed supra, disclosed the claimed invention except the hazard warning system proximity receiver with a mutually perpendicular 3-axis antenna, combining received signals from 3-axis antenna, comparator, encoder.

Weinstein teaches a receiver 13 with a mutually perpendicular 3-axis antenna (e.g. Col.4, lines 13-47), combining received signals from 3-axis antenna (e.g. Col.9, line 64-Col.10, line 18), comparator (e.g. Col.13, lines 30-34). Weinstein an amplifier/filter 26 (Col.4, lines 52-53) and detectors 32, 33 (e.g. Col.5, lines 66-68).

Kirtley et al. teach an encoder 21 (e.g. Col.7, lines 15-22).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include a receiver 13 with a mutually perpendicular 3-axis antenna, comparator, encoder 21 as taught by the combination of Weinstein and Kirtley et al. in a hazardous area warning system of Schiffbauer et al. in view of Story for the purpose of providing an output indication based upon the composite field strength of the signals detected by the receiving antenna (Weinstein, Col.1, line 52-56).

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Regarding claims 5-9 and 19-21, the combination of Schiffbauer et al., Story, and Weinstein discussed supra, discloses the claimed invention except comparator means for indicating the distance from receiver to the transmitter in order to place an output signal indicate the level of danger.

Kirtley et al. teach comparator means for indicating the distance from receiver to the transmitter in order to place an output signal indicate the level of danger (Col.6, lines 8-24/Col.1, lines 23-40).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include comparator means for indicates the distance from receiver to the transmitter in order to place an output signal indicate the level of danger as taught by Kirtley et al. in a hazardous area warning system of Schiffbauer et al. in view of Story and Weinstein for the purpose of providing a radio controlled safety stop system for forklift trucks that will alert the driver that he is approaching a danger zone when the forklift truck is a predetermined distance from the door, and which automatically interrupts the ignition system of the forklift truck to thereby stop the forklift truck if the forklift truck operator ignores the warning system and continues moving in the direction of danger (Kirtley et al., Col.4, line 52-Col.5, line 20).

6. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schiffbauer et al. (USP 5,939,986) in view of Story (USP 3,708,671), Weinstein (USP 5,170,172) and Kirtley et al. (USP 4,849,735) as applied to claims 18-20 above, and further in view of Schiemann (USP 4,518,009).

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Regarding claim 22, the combination of Schiffbauer et al., Story, and Kirtley et al. discussed supra, discloses the claimed invention except the danger indicator is a motor, vibrations from said motor providing an indication of danger.

Schiemann teaches comparator the danger indicator is a motor, vibrations from the motor providing an indication of danger (Col.3, lines 39-47).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the danger indicator is a motor and vibrations from the motor providing an indication of danger as taught by Schiemann in a hazardous area warning system of Schiffbauer et al. in view of Story and Kirtley et al. for the purpose of providing a device to avoid the car, which running out of gas (Schiemann, Col.3, lines 39-47).

7. Claim 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schiffbauer et al. (USP 5,939,986) in view of Story (USP 3,708,671) and Kirtley et al. (USP 4,849,735) as applied to claims 1-3 and 5-7 above, and further in view of Sivakumar (US 2002/0049056 A1).

Regarding claim 10, the combination of Schiffbauer et al., Story, and Kirtley et al. discussed supra, discloses the claimed invention except the vibrating means for providing personnel with a tactile indication of danger.

Sivakumar teaches the vibrating means for providing personnel with a tactile indication of danger [0037].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the vibrating means for providing personnel with a tactile

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indication of danger as taught by Sivakumar in a hazardous area warning system of Schiffbauer et al. in view of Story and Kirtley et al. for the purpose of providing an improved system for providing information on local circumstances, especially for handicapped people (Sivakumar, [0005]).

8. Claims 11, 23-24 are rejected under 35 U.S.C. 103(a) as being obvious over Schiffbauer et al. (USP 5,939,986) in view of Story (USP 3,708,671) as applied to claim 1 above, and further in view of Kirtley et al. (USP 4,849,735).

Regarding claims 11 and 23, the combination of Schiffbauer et al. Story and discussed supra, discloses the claimed invention except data receiver means receiving a signal from said transmitting means; decoder means decoding said received signal; driver means driving a plurality of outputs responsive to said decoder means, and indicator means indicating a safety state responsive to said driver means.

Regarding claim 24, Schiffbauer et al. teach a danger zone indicator, a caution indicator and a normal indicator (Col.5, lines 58-65).

Kirtley et al. teach a radio control safety system comprising data receiver (Fig.4) receiving a signal from the transmitter (Fig.3); decoder means 38 decoding the received signal; driver means driving a plurality of outputs responsive to the decoder means (Col.7, lines 15-48), and alarm sound, which read on indicator means indicating a safety state responsive to the driver means (Col.7, lines 2-5, lines 36-48).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include data receiver, decoder means decoding the received signal; driver means, and indicator means as taught by Kirtley et al. in a hazardous area

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warning system of Schiffbauer et al. in view of Story for the purpose of providing a radio controlled safety stop system for forklift trucks that will alert the driver that he is approaching a danger zone when the forklift truck is a predetermined distance from the door, and which automatically interrupts the ignition system of the forklift truck to thereby stop the forklift truck if the forklift truck operator ignores the warning system and continues moving in the direction of danger (Kirtley et al., Col.4, line 60-Col.5, line 20).

9. Claims 12-15, 25-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schiffbauer et al. (USP 5,939,986) in view of Story (USP 3,708,671) and Kirtley et al. (USP 4,849,735) as applied to claims 23 above, and further in view of Spencer (USP 4,906,972).

Regarding claims 12-13, 25 and 26, the combination of Schiffbauer et al., Story, and Kirtley et al. teach indicators are a red light, yellow light, wherein red light, yellow light are LEDs (Col.5, lines 58-65).

Regarding claims 14-15, the combination of Schiffbauer et al., Story, and Kirtley et al. teach means for disabling a system being monitored (Kirtley et al. Col.4, line 60-Col.5, line 8), a first data logger logging danger situation occurrences; and a second data logger logging caution condition occurrences (Schiffbauer et al., Col.5, lines 58-65).

Schiffbauer et al. fail to teach indicator is green light.

Spencer teaches the indicator is green light (Col.7, lines 6-19).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include indicator is green light as taught by Spencer in a

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hazardous area warning system of Schiffbauer et al. in view of Story and Kirtley et al. for the purpose of providing a communication system for hazardous areas.

### Response to Arguments

10. Applicant's arguments filed 09/22/2003 have been fully considered but they are not persuasive.

-Applicant argues that the prior did not teach "circuitry that indicates a level of the received directional signal in a plurality of different directions".

The combination of Schiffbauer et al. and Story teach "circuitry that indicates a level of the received directional signal in a plurality of different directions" as discussed above.

#### Conclusion

11. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

12. Specifically Story and Weinstein have been added to second ground of rejection.

Contact Information

13. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to John H. Le whose telephone number is (703) 605-4361.

The examiner can normally be reached on 9:00 - 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, John E. Barlow can be reached on (703) 308-3126. The fax phone number

for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

0956.

John H. Le

Patent Examiner-Group 2863

November 5, 2003

John Barloy

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Technology Center 2600